

EPA 104e – Question 2j

Airport Slip 6, Former Slip 5, and Jorgensen Forge Discharge

PCB Data Notes:

- Slip 6 IDs = KC1- ST1, 96-ST1
- Former Slip 5 IDs = KC2-ST1, 96-ST2
- Jorgensen Forge ID = KCJ-ST1, KCJ
- G = Grab Sample
- Samples taken at Jorgensen Forge Discharge Point may have been contaminated by downstream contamination through tide fluctuation. See Basin 5 report in Question 2j.

ORGANICS ANALYSIS DATA SHEET

PSDDA PCB by GC/ECD

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ANALYTICAL
RESOURCES
INCORPORATED 


Sample ID: KC1-ST1-032609

SAMPLE

Lab Sample ID: OS39A

LIMS ID: 09-7456

Matrix: Sediment

Data Release Authorized: 

Reported: 04/06/09

QC Report No: OS39-Seattle Public Utilities

Project: SPU LDW SEDIMENT SAMPLING

Date Sampled: 03/26/09

Date Received: 03/26/09

Date Extracted: 03/31/09

Date Analyzed: 04/04/09 04:43

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: Yes

Percent Moisture: 45.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g/kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	87.2%
Tetrachlorometaxylene	80.8%

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ANALYTICAL
RESOURCES
INCORPORATED 


Sample ID: KC1-ST1-032609-G

SAMPLE

Lab Sample ID: OS39B

LIMS ID: 09-7457

Matrix: Sediment

Data Release Authorized: 

Reported: 04/06/09

QC Report No: OS39-Seattle Public Utilities

Project: SPU LDW SEDIMENT SAMPLING

Date Sampled: 03/26/09

Date Received: 03/26/09

Date Extracted: 03/31/09

Date Analyzed: 04/04/09 05:00

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 1.00

Silica Gel: Yes

Percent Moisture: 80.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	< 20 U
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g/kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	91.2%
Tetrachlorometaxylene	83.8%

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Sample ID: KC2-ST1-032609

SAMPLE

Lab Sample ID: OS39C

LIMS ID: 09-7458

Matrix: Sediment

Data Release Authorized: 

Reported: 04/06/09

QC Report No: OS39-Seattle Public Utilities

Project: SPU LDW SEDIMENT SAMPLING

Date Sampled: 03/26/09

Date Received: 03/26/09

Date Extracted: 03/31/09

Date Analyzed: 04/04/09 05:17

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 5.00

Silica Gel: Yes

Percent Moisture: 63.9%


CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	32
11096-82-5	Aroclor 1260	20	25
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g/kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	108%
Tetrachlorometaxylene	99.0%

Sample ID: KC2-ST1-032609-G
SAMPLE

Lab Sample ID: OS39D
LIMS ID: 09-7459
Matrix: Sediment
Data Release Authorized: 
Reported: 04/06/09

QC Report No: OS39-Seattle Public Utilities
Project: SPU LDW SEDIMENT SAMPLING

Date Sampled: 03/26/09
Date Received: 03/26/09

Date Extracted: 03/31/09
Date Analyzed: 04/04/09 05:34
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: Yes
Percent Moisture: 15.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	98	< 98 Y
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in $\mu\text{g/kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	65.0%
Tetrachlorometaxylene	87.2%

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ANALYTICAL
RESOURCES
INCORPORATED 

Sample ID: KCJ-ST1-032609

SAMPLE

Lab Sample ID: OS39E

LIMS ID: 09-7460

Matrix: Sediment

Data Release Authorized: 

Reported: 04/06/09

QC Report No: OS39-Seattle Public Utilities

Project: SPU LDW SEDIMENT SAMPLING

Date Sampled: 03/26/09

Date Received: 03/26/09

Date Extracted: 03/31/09

Date Analyzed: 04/04/09 05:51

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 5.48 g-as-rec

Final Extract Volume: 5.0 mL

Dilution Factor: 20.0

Silica Gel: Yes

Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1,800	< 1,800 U
53469-21-9	Aroclor 1242	1,800	< 1,800 U
12672-29-6	Aroclor 1248	1,800	< 1,800 U
11097-69-1	Aroclor 1254	1,800	11,000
11096-82-5	Aroclor 1260	1,800	< 1,800 U
11104-28-2	Aroclor 1221	1,800	< 1,800 U
11141-16-5	Aroclor 1232	1,800	< 1,800 U

Reported in $\mu\text{g/kg}$ (ppb)


PCB Surrogate Recovery

Decachlorobiphenyl	148%
Tetrachlorometaxylene	108%

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Sample ID: KCJ-ST1-032609-G
SAMPLE

Lab Sample ID: OS39F
LIMS ID: 09-7461
Matrix: Sediment
Data Release Authorized: 
Reported: 04/06/09

QC Report No: OS39-Seattle Public Utilities
Project: SPU LDW SEDIMENT SAMPLING

Date Sampled: 03/26/09
Date Received: 03/26/09

Date Extracted: 03/31/09
Date Analyzed: 04/04/09 06:42
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 2.01 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 10.0
Silica Gel: Yes
Percent Moisture: 21.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	2,500	< 2,500 U
53469-21-9	Aroclor 1242	2,500	< 2,500 U
12672-29-6	Aroclor 1248	2,500	< 2,500 U
11097-69-1	Aroclor 1254	2,500	8,000
11096-82-5	Aroclor 1260	2,500	< 2,500 U
11104-28-2	Aroclor 1221	2,500	< 2,500 U
11141-16-5	Aroclor 1232	2,500	< 2,500 U

Reported in $\mu\text{g/kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	125%
Tetrachlorometaxylene	100%

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Sample ID: 96-ST1-120110

SAMPLE

Lab Sample ID: RZ02A

LIMS ID: 10-30226

Matrix: Sediment

Data Release Authorized: 

Reported: 12/15/10

QC Report No: RZ02-Seattle Public Utilities
Project: SPU LDW Sediment Sampling

Date Sampled: 12/01/10

Date Received: 12/02/10

Date Extracted: 12/14/10

Date Analyzed: 12/14/10 22:45

Instrument/Analyst: ECD7/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 5.00

Silica Gel: Yes

Percent Moisture: 32.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	28
11096-82-5	Aroclor 1260	20	< 20 U
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	84.6%
Tetrachlorometaxylene	78.6%

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Sample ID: 96-ST2-120110

SAMPLE

Lab Sample ID: RZ02B

LIMS ID: 10-30227

Matrix: Sediment

Data Release Authorized: 

Reported: 12/15/10

QC Report No: RZ02-Seattle Public Utilities

Project: SPU LDW Sediment Sampling

Date Sampled: 12/01/10

Date Received: 12/02/10

Date Extracted: 12/14/10

Date Analyzed: 12/14/10 23:09

Instrument/Analyst: ECD7/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 25.1 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 5.00

Silica Gel: Yes

Percent Moisture: 59.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	Aroclor 1254	20	37
11096-82-5	Aroclor 1260	20	25
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	101%
Tetrachlorometaxylene	79.9%

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Sample ID: KC2-102109
SAMPLE

Lab Sample ID: PT62A
LIMS ID: 09-24730
Matrix: Sediment
Data Release Authorized: *AB*
Reported: 10/29/09

QC Report No: PT62-Seattle Public Utilities
Project: Duwamish-KC Airport (KC#2)

Date Sampled: 10/21/09
Date Received: 10/21/09

Date Extracted: 10/26/09
Date Analyzed: 10/28/09 11:12
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 5.67 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: Yes
Percent Moisture: 43.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	18	< 18 U
53469-21-9	Aroclor 1242	18	< 18 U
12672-29-6	Aroclor 1248	18	< 18 U
11097-69-1	Aroclor 1254	18	< 18 U
11096-82-5	Aroclor 1260	18	< 18 U
11104-28-2	Aroclor 1221	18	< 18 U
11141-16-5	Aroclor 1232	18	< 18 U

Reported in $\mu\text{g/kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	63.5%
Tetrachlorometaxylene	57.2%

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Sample ID: KC2-102109G

SAMPLE

Lab Sample ID: PT62B

LIMS ID: 09-24731

Matrix: Sediment

Data Release Authorized: 

Reported: 10/29/09

QC Report No: PT62-Seattle Public Utilities

Project: Duwamish-KC Airport (KC#2)

Date Sampled: 10/21/09

Date Received: 10/21/09

Date Extracted: 10/26/09

Date Analyzed: 10/27/09 12:33

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 26.5 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 5.00

Silica Gel: Yes

Percent Moisture: 19.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	19	< 19 U
11097-69-1	Aroclor 1254	19	< 19 U
11096-82-5	Aroclor 1260	19	< 19 U
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U

Reported in $\mu\text{g/kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	87.4%
Tetrachlorometaxylene	70.4%

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Sample ID: KCJ-121009

SAMPLE

Lab Sample ID: QA78A

LIMS ID: 09-30381

Matrix: Sediment

Data Release Authorized: *RA*

Reported: 12/24/09

QC Report No: QA78-Seattle Public Utilities

Project: Duwamish-King County Airport

Date Sampled: 12/10/09

Date Received: 12/10/09

Date Extracted: 12/17/09

Date Analyzed: 12/22/09 02:24

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 3.21 g-dry-wt

Final Extract Volume: 5.0 mL

Dilution Factor: 5.00

Silica Gel: Yes

Percent Moisture: 75.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	160	< 160 U
53469-21-9	Aroclor 1242	160	< 160 U
12672-29-6	Aroclor 1248	2,300	< 2,300 Y
11097-69-1	Aroclor 1254	160	4,300
11096-82-5	Aroclor 1260	160	1,200
11104-28-2	Aroclor 1221	160	< 160 U
11141-16-5	Aroclor 1232	160	< 160 U

Reported in $\mu\text{g/kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	105%
Tetrachlorometaxylene	103%